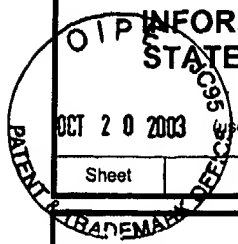


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Substitute for form 1449A/PTO (Modified)		<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (Use as many sheets as necessary) Sheet <u>1</u> of <u>1</u>		Application Number	09/189,543
		Filing Date	November 10, 1998
		First Named Inventor	CHEE ET AL.
		Group Art Unit	1631
		Examiner Name	MARSCHEL, A.
		Attorney Docket Number	A-66828-1/RMS/DCF/KJC



U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.	U.S. Patent Document Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
AM	A1	6,210,910	04/2001	Walt et al.	
AM	A2	6,620,584	09/2003	Chee et al.	
	A3				
	A4				
	A5				
	A6				
	A7				
	A8				
	A9				

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	B2					
	B3					
	B4					
	B5					

**OTHER PRIOR ART NON-PATENT**

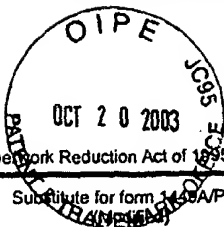
AM	C1	Venton, D. et al., "Screening combinatorial libraries," Chemometrics and Intelligent Laboratory Systems, NL, Elsevier Science Publishers, Amsterdam, 48(2) 131-150 (1999)	
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Examiner Signature	<i>Arden Monsley</i>	Date Considered	1-9-04
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				Group Art Unit	1631
				Examiner Name	Marschel, A.
				Attorney Docket Number	A-66828-1/RMS/DCF/KJC
Sheet	1	of	15		

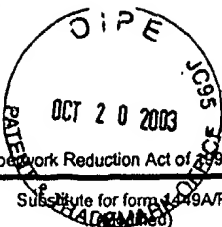
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A/M	A1	3,712,535	01/1973	Genese, J.N., et al.	
	A2	3,748,975	07/1973	Tarabocchia	
	A3	4,125,314	11/1978	Haskell et al.	
	A4	4,224,198	09/1980	Rembaum et al.	
	A5	4,448,485	05/1984	Bergman et al.	
	A6	4,582,789	05/1986	Sheldon, III et al.	
	A7	4,687,732	08/1987	Ward et al.	
	A8	4,729,949	03/1988	Weinreb et al.	
	A9	4,772,540	09/1988	Deutsch et al.	
	A10	4,842,783	06/1989	Blaylock	
	A11	4,868,130	09/1989	Hargreaves, W.R.	
	A12	4,876,187	10/1989	Duck et al.	
	A13	4,879,097	11/1989	Whitehead, T.P., et al.	
	A14	4,894,343	01/1990	Tanaka et al.	
	A15	4,895,805	01/1990	Sato et al.	
	A16	4,981,783	01/1991	Augenlicht	
	A17	5,015,843	05/1991	Seitz et al.	
	A18	5,019,350	05/1991	Rhum et al.	
	A19	5,026,599	06/1991	Koskenmaki	
	A20	5,061,336	10/1991	Soane	
✓	A21	5,071,531	12/1991	Soane	

Examiner Signature	<i>A. Marschel</i>	Date Considered	1-9-04
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			Group Art Unit	1631	
			Examiner Name	Marschel, A.	
Sheet	2	of	15	Attorney Docket Number	A-66828-1/RMS/DCF/KJC

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AM	A22	5,110,745	05/1992	Kricka et al.	
	A23	5,126,022	06/1992	Soane et al.	
	A24	5,135,627	08/1992	Soane	
	A25	5,176,881	01/1993	Sepaniak et al.	
	A26	5,177,012	01/1993	Kim et al.	
	A27	5,185,178	02/1993	Kosenmaki	
	A28	5,185,243	02/1993	Ullman et al.	
	A29	5,272,081	12/1993	Weinreb et al.	
	A30	5,296,375	03/1994	Kricka et al.	
	A31	5,304,487	04/1994	Wilding et al.	
	A32	5,308,771	05/1994	Zhou et al.	
	A33	5,310,674	05/1994	Weinreb et al.	
	A34	5,342,737	08/1994	Georger, Jr. et al.	
	A35	5,486,335	01/1996	Wilding et al.	
	A36	5,498,392	03/1996	Wilding et al.	
	A37	5,506,141	04/1996	Weinreb et al.	
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	A39	5,541,311	07/1996	Dahlberg et al.	
	A40	5,545,531	08/1996	Rava et al.	
	A41	5,585,069	12/1996	Zanzucchi et al.	
	A42	5,587,128	12/1996	Wilding et al.	
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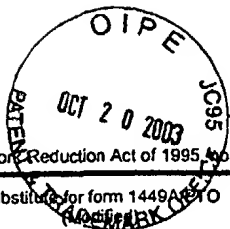
Examiner Signature	<i>Adam Manser</i>	Date Considered	1-9-04
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				First Named Inventor	Chee, M.S.
				Group Art Unit	1631
				Examiner Name	Marschel, A.
				Attorney Docket Number	A-66828-1/RMS/DCF/KJC
Sheet	3	of	15		

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AM	A45	5,595,915	01/1997	Geysen	
	A46	5,603,351	02/1997	Cherukuri et al.	
	A47	5,610,287	03/1997	Nikiforov et al.	
	A48	5,631,170	05/1997	Attridge	
	A49	5,631,337	05/1997	Sassi et al.	
	A50	5,632,876	05/1997	Zanzucchi et al.	
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	A52	5,635,358	06/1997	Wilding et al.	
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	A54	5,640,234	06/1997	Roth et al.	
	A55	5,643,738	07/1997	Zanzucchi et al.	
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	A58	5,660,988	08/1997	Duck et al.	
	A59	5,671,303	09/1997	Shieh et al.	
	A60	5,674,698	10/1997	Zarling et al.	
	A61	5,677,196	10/1997	Herron et al.	
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	A65	5,726,026	04/1998	Wilding et al.	
	A66	5,747,169	05/1998	Fan et al.	
	A67	5,747,180	05/1998	Miller et al.	
	A68	5,750,015	05/1998	Soane et al.	
	A69	5,755,942	05/1998	Zanzucchi et al.	

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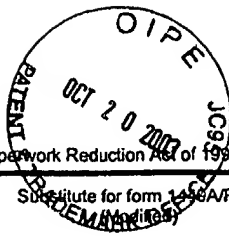
Examiner Signature	<i>Andin Marschel</i>	Date Considered	1-9-04
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			Filing Date	November 10, 1998	
			First Named Inventor	Chee, M.S.	
			Group Art Unit	1631	
			Examiner Name	Marschel, A.	
Sheet	4	of	15	Attorney Docket Number	A-66828-1/RMS/DCF/KJC

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AM	A70	5,770,029	06/1998	Nelson et al.	
	A71	5,770,157	06/1998	Cargill et al.	
	A72	5,795,716	08/1998	Chee	
	A73	5,837,196	11/1998	Pinkel et al.	
	A74	5,843,655	12/1998	McGall	
	A75	5,846,842	12/1998	Herron et al.	
	A76	5,849,215	12/1998	Gin et al.	
	A77	5,854,033	12/1998	Lizardi	
	A78	5,863,722	01/1999	Brenner, Sydney	
	A79	5,866,331	02/1999	Singer et al.	
	A80	5,874,219	02/1999	Rava et al.	
	A81	5,876,924	03/1999	Zhang et al.	
	A82	5,881,200	03/1999	Burt	
	A83	5,888,885	03/1999	Xie	
	A84	5,922,617	07/1999	Wang et al.	
	A85	5,976,797	11/1999	Mitsuhashi	
	A86	5,981,180	11/1999	Chandler et al.	
	A87	5,985,353	11/1999	Lawton et al.	
	A88	5,990,479	11/1999	Weiss et al.	
	A89	6,008,892	12/1999	Kain et al.	
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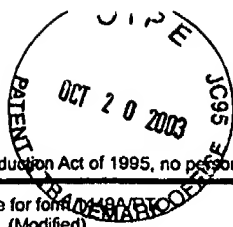
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Sheet	5	of	15		

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AM	A92	6,045,760	04/2000	Aizawa et al.	
	A93	6,048,515	04/2000	Kresse et al.	
	A94	6,048,616	04/2000	Gallagher et al.	
	A95	6,060,743	05/2000	Sugiyama et al.	
	A96	6,071,748	06/2000	Modlin et al.	
	A97	6,074,754	06/2000	Jacobsen et al.	
	A98	6,087,114	07/2000	Rider	
	A99	6,090,549	07/2000	Mirzabekov et al.	
	A100	6,090,553	07/2000	Matson	
	A101	6,090,666	07/2000	Ueda et al.	
	A102	6,096,496	08/2000	Frankel	
	A103	6,100,973	08/2000	Lawandy	
	A104	6,114,038	09/2000	Castro et al.	
	A105	6,121,075	09/2000	Yamashita	
	A106	6,129,896	10/2000	Noonan et al.	
	A107	6,139,626	10/2000	Norris et al.	
	A108	6,200,737	03/2001	Walt et al.	
	A109	6,207,392 B1	03/2001	Weiss et al.	
	A110	6,210,910	04/2001	Walt et al.	
	A111	6,261,782	07/2001	Lizardi et al.	
	A112	6,266,459	07/2001	Walt, D.R. and K.L. Michael	
↓	A113	6,268,147 B1	07/2001	Beattie et al.	

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<p>Sheet <b>6</b> of <b>15</b></p>			<p>Application Number <b>09/189,543</b></p>	
			<p>Filing Date <b>November 10, 1998</b></p>	
			<p>First Named Inventor <b>Chee, M.S.</b></p>	
			<p>Group Art Unit <b>1631</b></p>	
			<p>Examiner Name <b>Marschel, A.</b></p>	
			<p>Attorney Docket Number <b>A-66828-1/RMS/DCF/KJC</b></p>	

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AM	A114	6,274,323 B1	08/2001	Bruchez et al.	
	A115	6,280,935	08/2001	Macevicz	
	A116	6,284,456	09/2001	Jones et al.	
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	A118	6,285,807	09/2001	Walt, D.R., et al	
	A119	6,306,643 B1	10/2001	Gentalen et al.	
	A120	6,327,410 B1	12/2001	Walt, D.R. and K.L. Michael	
	A121	6,355,431 B1	03/2002	Chee et al.	
	A122	6,377,721	04/2002	Walt, D.R., and L.C. Taylor	
	A123	6,396,995	05/2002	Stuelpnagel, E., et al.	
	A124	6,406,845	06/2002	Walt, D.R., and B.G. Healey	
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	A128	20020001801	01/2002	Fan, J.B. and M.S. Chee	
	A129	20020006617	01/2002	Fan, J.B. and M.S. Chee	
	A130	20020051971	05/2002	Stuelpnagel, J.R., et al.	
	A131	20020122612	09/2002	Walt, D.R., and K.L. Michael	
	A132	20020132221	09/2002	Chee, M.S., et al.	
	A133	20020132241	09/2002	Fan, J.B., et al.	
	A134	20020150909	10/2002	Stuelpnagel, et al.	

Examiner Signature		Date Considered	<b>1-9-04</b>
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		Application Number	09/189,543		
		Filing Date	November 10, 1998		
		First Named Inventor	Chee, M.S.		
		Group Art Unit	1631		
		Examiner Name	Marschel, A.		
Sheet	7	of	15	Attorney Docket Number	A-66828-1/RMS/DCF/KJC

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U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
AM	A135	20020172716	11/2002	Walt, D.R., et al.	
	A136	20020177141	11/2002	Chee, M., and K. Gunderson	
	A137	20021087515	12/2002	Chee, M.S., et al.	
	A138	20030003490	01/2003	Fan, J.B., and M.S. Chee	
	A139	20030016897	01/2003	Walt, D.R., and K.L. Michael	
V	A140	20030027126	02/2003	Walt, D.R., and K.L. Michael	

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Examiner Initials*	Cite No.	Foreign Patent Document Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
AM	B1	JP 01283412	09/1991	Brother Ind Ltd, et al.	(abstract only)	
	B2	UK 2294319A	04/1996	Cambridge Imaging Limited		
	B3	UK 2315130	01/1998	Cambridge Imaging Ltd.		
	B4	UK 2315131	01/1998	Cambridge Imaging Ltd.		
	B5	<del>EP 2741357</del>	<del>06/1997</del>	<del>Corning Inc.</del>		
AM	B6	EP 0539888A1	05/1993	Shimadzu Corporation		
	B7	EP 0572157A1	12/1993	Puritan-Bennett Corporation		
	B8	EP 0799897	10/1997	Affymetrix, Inc.		
	B9	WO 92/09300	06/1992	Iterex Pharmaceuticals LTD		
	B10	WO 94/02515	02/1994	Bunsen Rush Laboratories		
	B11	WO 94/12863	06/1994	Trustees of Tufts College		
V	B12	WO 95/16918	06/1995	Combichem Inc.		

Examiner Signature	<i>A. Marschel</i>	Date Considered	1-9-04
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Substitute for form PTO/SB/8A (Modified)			<b>Complete if Known</b>		
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)			Application Number	09/189,543	
			Filing Date	November 10, 1998	
			First Named Inventor	Chee, M.S.	
			Group Art Unit	1631	
			Examiner Name	Marschel, A.	
Sheet	8	of	15	Attorney Docket Number	A-66828-1/RMS/DCF/KJC

### FOREIGN PATENT DOCUMENTS

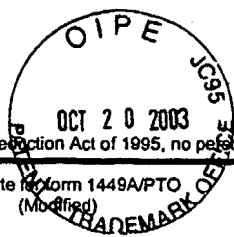
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AM	B13	WO 95/21271	08/1995	Molecular Tool Inc.		
	B14	WO 95/33070A1	12/1995	New York Medical College		
	B15	WO 96/04547	02/1996	Lockheed Martin Energy Systems, Inc.		
	B16	WO 96/11878	04/1996	Regents of the Univ. of CA		
	B17	WO 96/15271	05/1996	Abbott Laboratories		
	B18	WO 96/36436	11/1996	IRORI		
	B19	WO 96/40901A1	12/1996	Gen-Probe Inc.		
	B20	WO 97/12030	04/1997	Nanogen, Inc.		
	B21	WO 97/13870	04/1997	Heller		
	B22	WO 97/45559	12/1997	Cornell Research Foundation		
	B23	WO 98/04746	02/1998	Mount Sinai School of Medicine of CUNY		
	B24	WO 98/08092	02/1998	Smith Kline Beecham Corp.		
	B25	WO 98/29736	07/1998	Genometrix Incorporated		
	B26	WO 98/46797	10/1998	Immunological Associates of Denver		
	B27	WO 99/00663	01/1999	California Institute of Technology		
	B28	WO 99/05320	02/1999	Rapigene, Inc.		
	B29	WO 99/09394	02/1999	Alexion Pharmaceuticals, Inc.		
✓	B30	WO 99/28505	06/1999	Curagen Corp.		

Examiner Signature	<i>Justin Manaster</i>	Date Considered	1-9-04
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Substitute Form 1449A/PTO (Modified) <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)				<b>Complete if Known</b>			
				Application Number	09/189,543		
Sheet		9	of	15	Attorney Docket Number	A-66828-1/RMS/DCF/KJC	
						Examiner Name	Marschel, A.
						First Named Inventor	Che, M.S.
						Filing Date	November 10, 1998
						Group Art Unit	1631

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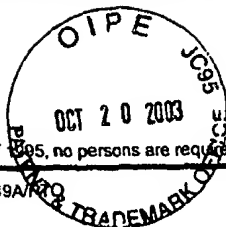
FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No.	Foreign Patent Document Country Code <sup>2</sup> Number <sup>2</sup> Kind Code <sup>3</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	1 <sup>4</sup>	
AM	B31	WO 99/34931	07/1999	Cartesian Technology, Inc.			
	B32	WO 99/39001	08/1999	Amersham Pharmacia Biotech AB			
	B33	WO 99/53087	10/1999	Europäisches Laboratorium für Molekularbiologie (EMBL)			
	B34	WO 00/26411A1	05/2000	Lynx Therapeutics			
	B35	WO 00/34299A1	06/2000	Biochip Technologies GMBH			
	B36	WO 00/47767	08/2000	Astrazeneca UK Limited.			
	B37	WO 00/71992	11/2000	Illumina Inc.			
	B38	WO 01/12862	02/2001	Illumina, Inc.			
	B39	WO 01/18524	03/2001	Illumina, Inc.			
	B40	WO 01/41918	06/2001	Illumina, Inc.			
	B41	WO 01/46675	06/2001	Illumina, Inc.			
	B42	WO 01/57268	08/2001	Illumina Inc.			
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↓	B49	WO 02/16649	02/2002	Illumina Inc.			

Examiner Signature	<i>Adam Marschel</i>	Date Considered	1-9-04
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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)			Application Number	09/189,543	
			Filing Date	November 10, 1998	
			First Named Inventor	Che, M.S.	
			Group Art Unit	1631	
			Examiner Name	Marschel, A.	
Sheet	10	of	15	Attorney Docket Number	A-66828-1/RMS/DCF/KJC

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Examiner Initials*	Cite No.	Foreign Patent Document Country Code <sup>2</sup> Number <sup>3</sup> Kind Code <sup>4</sup> (# known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>5</sup>
AM	B50	WO 02/21128	03/2002	Illumina Inc.		
	B51	WO 02/101358	12/2002	Illumina Inc.		
	B52	WO 03/002979	12/2002	Illumina Inc.		
	B53	WO 03/006677	01/2003	Illumina Inc.		

#### OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>5</sup>
AM	C1	Angel, S., "Optrodes: Chemically Selective Fiber-Optic Sensors," Spectroscopy, 2(4):38-47 (1987)	
	C2	Baner et al., "Signal amplification of padlock probes by rolling circle replication," Nucleic Acids Research, 26(22): 5073-5078 (1998).	
	C3	Barnard et al., "Fiber-Optic Organic Vapor Sensor," Environ. Sci. Technol., 25(7): 1301-1304 (1991)	
	C4	Ben-Dor, A., et al., "Universal DNA Tag Systems: A Combinatorial Design Scheme," J. Compu. Biol. 7(3/4): 503-519 (2000)	
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	C12	Danielson et al., "A Combinatorial Approach to the Discovery and Optimization of Luminescent Materials," Nature, 389:944-948 (1997).	

Examiner Signature	<i>Adin Marschel</i>	Date Considered	1-9-04
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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (use as many sheets as necessary)		Application Number	09/189,543
		Filing Date	November 10, 1998
		First Named Inventor	Chee, M.S.
		Group Art Unit	1631
		Examiner Name	Marschel, A.
Sheet 11 of 15	Attorney Docket Number	A-66828-1/RMS/DCF/KJC	

### OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>1</sup>
AM	C13	DeForest, W.S., "Photoresist Materials and Processes," McGraw-Hill Book Company, New York. 89101 (1975)	
	C14	Deutsch, M. et al., "Apparatus for high Precision Repetitive Sequential Optical Measurement of Living Cells," Cytometry 16:214-226 (1994)	
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	C16	Dickinson et al., "Generating Sensor Diversity Through Combinatorial Polymer Synthesis," Analytical Chemistry, 69(17): 3413-3418 (1997)	
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	C21	Fodor, S. et al., "Light-Directed, Spatially Addressable Parallel Chemical Synthesis," Science, 251:767-773 (1991).	
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	C23	Gauci, M. et al., "Observation of Single-Cell Fluorescence Spectra in Laser Flow Cytometry," Cytometry 25:388-393 (1996)	
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	C26	Gunderson, K.L., "Mutation Detection by Ligation to Complete n-mer DNA Arrays." Genome Research 8:1142-1153 (1998)	
	C27	Hafeman, D. et al., "Light-Addressable Potentiometric sensor for biochemical systems," Science, 240:1182-1185 (1988)	
✓	C28	Hirschhorn, J.N., et al., "SBE-TAGS: An Array-Based Method for Efficient Single-Nucleotide Polymorphism Genotyping." PNAS 97(22): 12164-12169 (2000)	

Examiner Signature	<i>Adam Marschel</i>	Date Considered	1-9-04
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		Filing Date	November 10, 1998
		First Named Inventor	Chee, M.S.
		Group Art Unit	1631
		Examiner Name	Marschel, A.
Sheet 12 of 15	Attorney Docket Number	A-66828-1/RMS/DCF/KJC	

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
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AM	C29	Hogan, B. et al., "Single-cell Analysis at the Level of a Single Human Erythrocyte," Trends in Analytical Chemistry 12(1):4-9 (1993)	
	C30	Hsuih, T. et al., "Novel, Ligation-Dependent PCR Assay for Detection of Hepatitis C Virus in Serum," Journal of Clinical Microbiology, Mar. 1996, 34(3): 501-507 (1996)	
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	C32	Hubert, C. et al., "Design of a Solvatochromic Polymer-Based Fiber Optics Chemical Sensor for Polar Solvent Detection," Adv. Mater., 7(11): 914-917 (1995)	
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Examiner Signature	<i>Andin Marschel</i>	Date Considered	1-9-04
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT		Application Number	09/189,543
Use as many sheets as necessary)		Filing Date	November 10, 1998
Sheet 13 of 15		First Named Inventor	Chee, M.S.
		Group Art Unit	1631
		Examiner Name	Marschel, A.
		Attorney Docket Number	A-66828-1/RMS/DCF/KJC

### OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

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Examiner Signature	<i>Ardin Marschel</i>	Date Considered	1-9-04
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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		Application Number	09/189,543
		Filing Date	November 10, 1998
		First Named Inventor	Chee, M.S.
		Group Art Unit	1631
		Examiner Name	Marschel, A.
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AM	C64	Rosenzweig, Z. et al., "Analytical properties of miniaturized oxygen and glucose fiber optic sensors," Sensors and Actuators, B 35-36, 475-483 (1996)	
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Examiner Signature	<i>Arden Marschel</i>	Date Considered	1-9-04
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AM	C82	Wong, K. et al., "Simultaneous Monitoring of Glutathione and Major Proteins in Single Erythrocytes," Mikrochim. Acta. 120:321-327 (1995)	
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